DEPARTMENT OF HEALTH & HUMAN SERVICES





Indian Health Service Spokane District Office 1919 E. Francis Avenue Spokane, WA 99208

November 5, 2007

Ron Sather, Maintenance Manager 7 Cedars Casino 270756 Highway 101 Sequim, WA 98382

RE: 7 Cedars Sanitary Survey

Dear Mr. Sather:

I would like to thank you for your assistance helping Indian Health Service (IHS) complete the sanitary survey for the 7 Cedars Casino water system. This assessment of the water system is intended as a tool for identifying areas needing improvement. Enclosed is the Water System Sanitary Survey Report conducted on October 24, 2007. The following is a summary of recommendations generated from the sanitary survey. IHS technical assistance is available for correcting any deficiencies.

Proposed Recommendations:

- 1. Groundwater It is recommended the original well be properly abandoned if it isn't going to be utilized by the system. Located in a vault, the well is vulnerable to storm water runoff and vehicle spillage. Since the main well is also located in a parking lot vault, a basic wellhead protection plan should be considered.
- 2. <u>Security</u> A fence should surround the water storage tank to prevent trespassing of unauthorized personnel.
- 3. <u>Emergency Planning</u> A vulnerability assessment is helpful for identifying threats to the water system, determining actions to take if an emergency did occur, and establishing a contact list of people to be notified. An example may include the failure of the submersible pump in the well. Contact information would include customers, chain-of-command, and pump service providers. A long-term solution would include measures for hauling water to the casino.

Please feel free to call me at (509)484-9341 Ext. 224 with any questions, comments, or concerns regarding the assessment details. There is a two-week review period set aside for you to respond with any changes or clarifications. If no comments are received, a copy of this report will be sent to Region X Federal EPA Drinking Water Program on November 29, 2007.

Sincerely,

LCDR. Darren Ausdemore, PE

Tribal Utility Consultant Spokane District IHS

Steven Anderson, PAO DUC

#105300108

Cc:

Sanitary Survey - Survey Responses

WS Number	: EPA #105300108	Survey ID:	13	Survey Date:	10/24/2007
urvey Name:	Jamestown S Klallam 7 Cedar C	asino		User Name:	Darren Ausdemore
Question Num	ber				
General / Si	DWIS Site Visit Info				
1	Reason for the visit.			SHAZ - Sanitary Hazards	TRNG - Training follow- LABC - Laboratory certificati Investi EMRG - Emergency assistan
2	Date of the survey:			10/24/2007	Plant S ENGR - Engincering
3	Inspector's Name:			✓ Darren Ausdemore	
4	Inspector's organization:			✓ Indian Health Service	
5	Next inspection due date:			10/24/2017	
	ackground Info				
Name/Locat	ION: Name of public water system:			01/1-11 7.0-	
•	Name of public Mater System.			Jamestown S'Klallam 7 Ce	edars Casino
2	EPA number:		-	105300108	
	ackground Info				
Classificatio					Tow o c w.
1	Primary water source:			☐ GU - Groundwater under ☐ GUP - Groundwater under ☑ GW - Groundwater ☐ GWP - Groundwater pure	the dir SW - Surface Water or the di SWP - Surface Water purchas chased
	Maximum Daily Production (GPD): (Based on a 12-hour pump run time per day)		12,000	
3	SDWA classification of system:	·		☐ C - Community ☐ NC - Non Community tra ☐ NP - Non Public ☑ NTNC - Non Transient N	I I

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Jamestown S Klallam 7 Cedar Casino

10/24/2007

4	Total Number of Connections:	2
5	Number of residential service connections:	<u>o</u>
6	Estimated Residential population:	600
. 7	Purchase water?	☐ Yes ✓ No ☐ NA
7.01	If yes, name of system purchased from:	☐ Unknown
General /	Background Info	
Owner:		
1	Owner type:	☐ F - Federal ☐ P - Private ☐ L - Local ☐ S - State Government ☐ M - Mixed ☑ N - Native American
2	Legal ownership by (name or entity)	Jamestown S'Klallam Tribe
3	Owner's address line1:	1033 Old Blyn Highway
4	Owner's address city:	Sequim
· 5	Owner's address state:	WA
6	Owner's address zip code:	98382
7	Owner's telephone number	360-683-1109

Staff: 1 Main operator's last name 2 Main operator's first name Ron 3 Main operator's address 270756 Highway 101 4 Main operator's telephone 360-681-6734 5 Main Operator's Certification Level WDM1 WDM2 WTPO 6 Emergency contacts: Ron Sather	? Sequim, WA 98382
2 Main operator's first name Ron 3 Main operator's address 270756 Highway 101 4 Main operator's telephone 360-681-6734 5 Main Operator's Certification Level Notes: None 6 Emergency contacts: Ron Sather 7 Emergency contacts: telephone number 360-681-6734 Seneral / Background Info Previous Survey Info: 1 Date of last sanitary survey: 06/11/2002 2 Last survey conducted by: Craig Paulsen, EPA;	? Sequim, WA 98382
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2 Last survey conducted by: Craig Paulsen, EPA;	
Otal Labor, 2177	
Otag randon 2177	
No. Mas Breech	Ron Sather, 7 Cedars
Notes: Also Present	
Vickie Carroll, Former Tribal Water Operator	
eneral / Background Info	
urrent Survey Info / History:	
1 Have there been any violations in the past year? ☑ Ycs ☑ No	
Notes: 1/12/2007 - Violation 27 5/24/2007 - Violation 24 NA Unknown	
1.01 If yes, list violations	
· · · · · · · · · · · · · · · · · · ·	· · · · · ·

Question Nu	mber	·
2	Have there been any interruptions in service during the past year?	No
General /]	Background Info	
Current St	urvey Info / Participants:	
1	Survey team members present during the survey:	Ron Sather, 7 Cedars Maintenance Manager
Regulation	ns / General	
1	Is the system in compliance with various provisions of the National Primary Drinking Water Regulations (NPDWR)?	Yes No NA Unknown
2	What is the operator certification level required for this facility?	WDS preferred
3 Potential Deficienc	Is the system staffed by properly certified operators?	☐ Yes ☑ No ☐ NA ☐ Unknown
Regulation	ns / Plans/Records	
1	Is a total coliform rule (TCR) sample siting plan available for review?	✓ Yes No NA Unknown
2	Are the following records maintained and available for réview:	
, 2.01	Bacteriological Analysis - 5 years retention.	Ycs No NA Unknown
2.02	Chemical Analysis - 10 years retention.	Yes No NA Unknown
2.03	Records of actions taken to correct violations - 3 years retention.	✓ Yes No NA Unknown
2.04	Copies of reports, summaries or communication related to Sanitary Surveys - 10 years retention.	Yes No NA Unknown

Question Num	ber		
2.05	Copies of reports, summaries or communication related to reports concerning variances or exemptions - 5 years retention.		Yes No NA Unknown
	notices issued - 3 years retention.		Yes No NA Unknown
Regulations	s / Monitoring		
1 .	Are certified laboratories utilized when required?		Yes No NA Unknown
2	is the PWS out of compliance with any monitoring requirements?		Yes No NA Unknown
2.01	If yes, identify the nature of the non-compliance.	_	
3 Potential Deficiency	Has the PWS been in compliance with all monitoring requirements for the past 24 months?		Yes No NA Unknown
4	Have samples for the following parameters been accomplished according to the applicable schedule?		
4.01	Coliform:		Yes No NA ' Unknown
4.02	IOCs:		Yes No NA. Unknown
4.03	Nitrates:		Yes No NA Unknown
4.04	Radionuclide:		Yes No NA Unknown
4.05	VOCs:		Yes No NA Unknown
4.06	SOCs:		Yes No NA Unknown

Question Nu	mber	
4.07	DBP's:	Yes No NA Unknown
4.08	If no, explain.	
Sources / C	General	
General:		
1	Are there any abandoned, unused, or auxiliary sources?	⊻ Ycs
Potential Deficienc	y Notes: A second well is also located in a parking lot vault. The well is disconnected from the system.	☐ No ☐ NA ☐ Unknown
2	Does the system have redundant sources?	No
	Notes: A third well is found in a building southeast of the casino. The well connected to the system but not in opereration.]
Sources / C	General	
Quantity:	· · · · · · · · · · · · · · · · · · ·	
1	Does system have an operational master meter?	✓ Yes □ No □ NA □ Unknown
2 Potential Deficienc	Does the system have interconnections with neighboring systems or a contingency plan for water outages?	☐ Yes ☑ No ☐ NA ☐ Unknown
Sources / C	<u>Groundwater</u>	
Wells / Ger	neral:	
1 .	Does the system have well construction log(s) on file?	Yes No NA Unknown
2	Is drawdown measured?	Ycs
Potential Deficienc		☑ No
	Notes: Drawdown was last measured when it was drilled in 1987.] □ NA □ Unknown
3	Is the source located in a well house?	☐ Yes ☑ No
	Notes: The well is located in a concrete vault in the parking lot.] ∐ NA □ Unknown
4	Capacity of the Well:	30 GPM
	Notes: Data based on bailer test done when drilled.] ————
5	Latitude decimal measure:	N 48 01.341
		· · · · · · · · · · · · · · · · · · ·

Question Nu	umber	
6	Longitude decimal measure:	W 123 00.627
7	Has a GWUDI Assessment been done for the source?	☐ Yes ☐ No ☐ NA ☑ Unknown
7.01	If yes, what was the date of the assessment?	
Sources /	<u>Groundwater</u>	
Wells / Sec	curity:	
1	Is the wellhead protected from access by unauthorized personnel? Notes: Wellhead is secured with bolts. Vault is unable to be locked.	✓ Yes □ No □ NA □ Unknown
2	Is lightning protection provided?	No
	<u>Groundwater</u> V Protection:	
1	Is the well in a confined or unconfined aquifer?	✓ Confined ☐ Unconfined
2 Potential Deficien	Is there a Source Water Protection Plan developed for this source?	☐ Yes ☑ No ☐ NA ☐ Unknown
2.01	If yes, date of the plan:	
3	Is the well located in the proximity of any potential sources of pollution?	☐ Yes ☑ No ☐ NA ☐ Unknown
4	Are the following minimum distances from the PWS well being met?	
4.01	Any potential source of contamination within 50 Ft.	☐ Ycs ☑ No ☐ NA ☐ Unknown
4.02	Sewer line within 100 Ft.	☐ Yes ✓ No ☐ NA ☐ Unknown

4.03	1. di. d d. b	, , , , , , , , , , , , , , , , , , ,
4.03	Individual home septic tank within 100 Ft.	☐ Yes ☑ No ☐ NA
4.04	Individual home disposal field within 100 Ft.	☐ Unknown ☐ Yes ☑ No ☐ NA
4.05	Individual home seepage pit within 100 Ft.	UnknownYes✓ NoNA
4.06	Livestock within 100 Ft.	UnknownYes✓ No
5 Potential Deficiency	Are there abandoned wells that have not been properly plugged and sealed	└ No
	Is the upper termination of the well protected?	☐ NA ☐ Unknown ✓ Yes ☐ No
7	ls the well cased and sealed in such a manner that surface water cannot	□ NA □ Unknown ✓ Yes
	enter the well?	□ No □ NA □ Unknown
	drainage? Notes: There is some concern of flooding the vault in the parking lot. Drainage appeared to be adequate with no standing water being	▼ Yes □ No □ NA □ Unknown
9	present. Is the floor drain connected to sewer, storm drains, chlorination room drains or any other source of contamination?	☐ Ycs ☑ No ☐ NA
	Is the well house kept clean, in good repair and not used to store toxic or hazardous material?	Unknown✓ YesNoNA
11	Is the sump for well house floor drains located at least 30 feet from the well'	 Unknown Yes No NA ✓ Unknown
Sources / G Wells / Cons	roundwater	© Unknown
	What is the depth of the well in feet?	57
2	What is the depth of the casing in feet?	220

3	What is the depth of grouting in feet?	221
4	Does the casing extend a minimum of 12 inches above the finished ground surface or 6 inches above the well house floor?	□ No
	Notes: The casing extends approximately 5 feet above the vault floor.	
5	Is grouting or a concrete pad surrounding the casing at the well?	 ✓ Ycs □ No □ NA □ Unknown
6	What type of pump is used for this well?	☐ CF - Centrifugal ☐ SC - Screw ☐ SU - Submersible ☐ JT - Jet ☐ VT - Vertical Turbine ☐ PD - Positive Displacement
7	Is the sanitary seal properly installed and maintained?	✓ Yes No NA Unknown
8	Is the well vented with the open end of the vent screened and terminated downward at least 12 inches above the ground or pumphouse floor?	✓ Yes No
	Notes: Vent wasn't found during the survey. However, the previous survey did identify a vent was present.	│
9	If the well has a pitless adapter or pitless unit, is it third party approved?	Yes No NA Unknown
10	Is the pitless adapter designed, constructed and installed to be water tight including the cap, cover, casing extension and other attachments?	Ycs No NA Unknown
.11	Is the discharge line from the well equipped to allow the well to be pumper to waste via an approved air gap?	i ♥ Yes No NA Unknown
Treatment	t / General	
General:		
1	Is a finished water sampling tap provided?	✓ Yes □ No □ NA □ Unknown
Treatment	: / General	
Safety:		
1	Are permanent ladders or handholds provided on the inside walls of basins above the water level?	G
2	Does the PWS provide stairways, ladders and handrails where needed?	✓ Ycs No NA
		Unknown

Questio	on Num	ber		
	3	Are treads of non-slip material provided where needed?	Yes No NA Unknown	
	4	Is ventilation provided in all rooms, compartments, pits and other enclosure where unsafe atmosphere may develop or where excessive heat may be?	Yes No NA Unknown	
		Are all confined space entry procedures done in accordance with OSHA requirements?	Yes No NA Unknown	
Treatr	nent .	/ General		
Chemi				
		Have operators been trained to use the safety equipment?	Yes No NA Unknown	
	2	Is there a Hazard Communication Program in place?	Yes No NA Unknown	
	3	Are safe practices followed during chemical handling and mixing?	Yes No NA Unknown	
	4	Are floor surfaces smooth and impervious, slip-proof and well drained?	Yes No NA Unknown	
	5	Do the operators know where all of the chemical application points are and which points are being utilized?	Yes No NA Unknown	
Potential D	6 eficiency	Is a deluge shower and/or eyewashing device installed where strong acids and alkalis are used or stored?	Yes No NA Unknown	
	7	Are all materials that are in contact with chemicals resistant to the aggressiveness of that particular chemical?	Yes No NA Unknown	
	8	Are incompatible chemicals stored separately?	Yes No NA Unknown	
		Is an anti-siphon device provided so that liquid chemical solutions cannot be siphoned through solution feeders into the water supply?	Yes No NA Unknown	
1		Are chemicals stored in covered or unopened shipping containers? (unless the chemical is transferred into an approved storage unit)	Yes No NA Unknown	

Do dally operating records reflect chemical dosages and total quantities used? No No No Unknown 12 Are provisions made for measuring the quantities of chemicals used? 13 Is there adequate space in the facility for storage of all chemicals required in No	No	11		Ľ YCS
Are provisions made for measuring the quantities of chemicals used? Yes	NA		used?	No.
Are provisions made for measuring the quantities of chemicals used? Yes No NA Unknown 13	ing the quantities of chemicals used? Yes No NA Unknown Indicates the property of all chemicals required in the property of the property			
No No No No Unknown Is there adequate space in the facility for storage of all chemicals required in	No			Unknown
Is there adequate space in the facility for storage of all chemicals required in the treatment process? Is the treatment process? Is the chemical storage areas clean and as dry as possible? Is there appropriate safety equipment (e.g. cartridge respirator for calcium hypochlorite) and PPE (e.g. goggles, gloves, etc.) available and in use? Is there appropriate safety equipment (e.g. cartridge respirator for calcium hypochlorite) and PPE (e.g. goggles, gloves, etc.) available and in use? Is there appropriate safety equipment (e.g. cartridge respirator for calcium hypochlorite) and PPE (e.g. goggles, gloves, etc.) available and in use? No NA Unknown The Are liquid chemicals used? Yes No NA Unknown The Are dry chemicals used? Yes No NA Unknown The House / General What is the name & location of this pumping station? Submersible Pump in Well What is the purpose of this pumping station? What is the purpose of this pumping station? Well to Storage Tank & Distribution System Well to Storage Tank & Distribution System Notes: Average production	No	12	Are provisions made for measuring the quantities of chemicals used?	☐ Ves
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Is there adequate space in the facility for storage of all chemicals required it	acidity for storage of all chemicals required in Ycs		•	☑ NA
the treatment process? No No No Unknown	No			Unknown
the treatment process? No No No Unknown	No	13	Is there adequate space in the facility for storage of all chemicals required i	iı ☑ Yes
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No No No No No No No No	No			LI Unknown
NA	ment (e.g. cartridge respirator for calcium gles, gloves, etc.) available and in use? NA	14	Are the chemical storage areas clean and as dry as possible?	⊻ Yes
Unknown Unknown Unknown Yes No No No No No No No N	Unknown Unknown			
15 Is there appropriate safety equipment (e.g. cartridge respirator for calcium hypochlorite) and PPE (e.g. goggles, gloves, etc.) available and in use? No NA Unknown	ment (e.g. cartridge respirator for calcium gles, gloves, etc.) available and in use? No			
hypochlorite) and PPE (e.g. goggles, gloves, etc.) available and in use? No	gles, gloves, etc.) available and in use? No NA Unknown Yes No NA Unknown Yes No NA Unknown Yes No NA Unknown Submersible Pump in Well Ding station? Source Water Pumping Internal Plant Water Pumping Finished Water Pumping Pressure Booster Pumping Pressure Booster Pumping			
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Are liquid chemicals used? Yes No NA Unknown 17 Are dry chemicals used? Yes No NA Unknown 18 No NA Unknown Phouse / General 1 What is the name & location of this pumping station? Submersible Pump in Well 2 What is the purpose of this pumping station? Internal Plant Water Pumping Finished Water Pumping Pressure Booster Pumping Pressure Booster Pumping Well to Storage Tank & Distribution System 4 What is the maximum daily production of this pumping station? (GPD) Notes: Average production	yes No NA Unknown Yes No NA Unknown NA Unknown Submersible Pump in Well Finished Water Pumping Finished Water Pumping Finished Water Pumping Pressure Booster Pumping			
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Where does this pumping station pump from and to? Well to Storage Tank & Distribution System What is the maximum daily production of this pumping station? (GPD) Notes: Average production	Finished Water Pumping Pressure Booster Pumping	2	What is the purpose of this pumping station?	
Where does this pumping station pump from and to? Well to Storage Tank & Distribution System What is the maximum daily production of this pumping station? (GPD) Notes: Average production	Pressure Booster Pumping			
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Notes: Average production		3	where does this pumping station pump from and to?	Well to Storage Tank & Distribution System
Notes: Average production	<u> </u>			
Notes: Average production				
Notes: Average production	uction of this pumping station? (GPD)	4	What is the maximum daily production of this pumping station? (GPD)	40,000
<u> </u>	12,000	·	the contraction of the period	12,000
			Notes: Average production	
5 How is pump output capacity determined? ☑ in-linc flow meter	lermined? <u></u> in-line flow meter	5	How is pump output capacity determined?	in-line flow meter
portable flow meter				
suction well draw-down				
other	∟ J other			∟ other
6 Is the output capacity verified at least annually?	least annually?			
□ No	□ No	6	Is the output capacity verified at least annually?	⊻ Ycs
□ NA		6	Is the output capacity verified at least annually?	□ No

Question Nun	nber	
7	Are all pumping units operable?	✓ Yes No NA Unknown
8	Is all of the pumping equipment in good condition?	✓ Yes No NA Unknown
9	Are the pumps located in a pumping station?	☐ Ycs ☑ No
	Notes: Treatment and plumbing tree are housed in room connected to the casino.	☐ Unknown
10	Is security around the pumping station adequate?	☑ Ycs □ No □ NA
	Notes: Due to the location of the vault, fencing and padlock aren't practical Treatment room is locked.	Unknown
11	Is the pump facility properly protected against unauthorized entry?	 ✓ Ycs □ No □ NA □ Unknown
Pump Hous	se / Design	
1	What type of pump(s) are at this pumping station?	☐ CF - Centrifugal ☐ SC - Screw ☐ SU - Submersible ☐ JT - Jet ☐ VT - Vertical Turbine ☐ PD - Positive Displacement
2 Potential Deficiency	Are there at least two equal and functioning pumping units? (Note: For well systems, consider other wells)	☑ No
·	Notes: The well is in the process of being put online.	│
3	Can equipment be accessed for maintenance and removal from the building	¥ Yes ☐ No ☐ NA ☐ Unknown
4	is each pump discharge line equipped with:	
4.01	a positive-acting check valve between the pump and the isolation valve? Notes: It is assumed check valves are installed on pump drop pipe.	☐ Yes ☐ No ☐ NA ☐ Unknown
4.02	isolation gate valves?	✓ Ycs □ No □ NA □ Unknown
4.03	pressure gauge?	Yes No NA Unknown
4.04	flow meter?	✓ Yes No NA Unknown

Question Num	ber			
5 Potential Deficiency	Is an air release valve located between the source and check valve? (Recommended for Vertical Turbine Pumps)		Yes No	gentle grant it a state, get to ge, h as we a to be the setting seeker
	Notes: ARV is located on static mixing tank.	\vdash	NA	
5.01	Is the discharge line from the air release valve properly protected to preventhe entrance of contaminants?		Unknown Yes No NA Unknown	·
6	Are the pumps controlled manually?		Yes No NA Unknown	
7	Are pumps controlled automatically?		Yes No NA Unknown	
7.01	What type of automatic control function is used?	Y	Pressure Flow	
	Notes: Floats are used for pump controls.		Time Other	
8	Are chemical feeders tied to the pump controls?		Yes No	
	Notes: Ozone generators are tied to controls.		NA Unknown	
8.01	If yes, what chemicals are fed?	02	zonation	
9	Are all controls protected inside a waterproof cabinet?		Yes No NA Unknown	
<u>Distribution</u>	n / Design			
1	What kind of piping materials are in the distribution system?		Cast Iron / Ductile Iron PVC	Steel
	Notes: Service lines are copper.		Asbestos - Cement Copper	
2	Do any water lines have dead ends?		Yes No NA Unknown	
2.01	How many dead-ends are in the system?	3		
3	Are there any main lines that have a diameter of less than 3 inches?		Yes No NA Unknown	
4	Do all water mains that provide fire flow have a diameter of at least 6 inches		Yes No NA Unknown	

Question Nu	mber	•
5	Are there any bottle necks in the piping system? (A small diameter pipe connected on both ends by larger diameter pipe)	☐ Yes ☑ No ☐ NA ☐ Unknown
6	Are separate pressure zones provided?	☐ Yes ☑ No ☐ NA ☐ Unknown
6.01	If yes, are there automatic operating pressure regulating valves (PRV's) separating the zones?	☐ Yes ☐ No ☐ NA ☐ Unknown
7	Is there a need for pressure zones?	☐ Yes ✓ No ☐ NA ☐ Unknown
8	Was asbestos/cement pipe used in the system?	☐ Yes ☑ No ☐ NA ☐ Unknown
8.01	If yes, has asbestos analysis been done?	☐ Yes ☐ No ☐ NA ☐ Unknown
9	Are all materials used in the system manufactured according to ANSI/AWWA Standards?	Yes No NA Unknown
10	Does the system have adequate valves?	Yes No NA Unknown
11	In cold climates, are all pipes buried below the frost line?	Yes No No Unknown
12	Are air relief valves provided where necessary?	✓ YesNoNAUnknown
13	Are water and sewer (sanitary or storm) mains separated by a horizontal distance of 10 ft. or greater?	✓ YesNoNAUnknown
14	Is there a minimum horizontal distance of 25 ft. between a subsurface disposal system and any water distribution pipe?	☐ Yes ☐ No ☑ NA ☐ Unknown
15	Are cast iron and steel pipe protected from external corrosion?	☐ Yes ☐ No ☑ NA ☐ Unknown

Distribution / Records & Plans

1	Is an adequate map maintained of the distribution system?		Yes No NA Unknown
2	Are distribution system problem areas identified on a system map?		Yes No
	Notes: None present.		NA Unknown
3	Are the maps updated as changes to the system are made?		Yes No NA Unknown
<u>Distributio</u>	n / Construction		
1	Are proper bedding and backfill procedures used with new or repaired pipes	Y	Yes No
	Notes: Major repairs are done by Jamestown Excavation.	H	NA Unknown
. 2	Are concrete thrust blocks or restraining fittings used at all elbows, tees and dead ends?		•
			Unknown
3	Are pressure and/or leak tests performed on all new pipe construction?		Yes No NA Unknown
<u>Distributio</u>	n / Pressure/Flow		
1	Does the system maintain a minimum working pressure of 35 psi and a normal working pressure of 60 psi measured at the consumer's tap?		Yes No NA Unknown
2	Is the PWS capable of providing sufficient water during maximum hourly demand conditions (including fire flow) to maintain a minimum pressure of 2 psi within the system measured at the consumer's tap?		Yes No NA
3	Does the the system maintain a minimum working pressure of 35 psi and a normal working pressure of 65 psi measured at the consumers tap?		Unknown Yes No NA Unknown
4	Is the fire flow adequate?		Yes No NA Unknown
5	Are there areas with chronic low pressure problems?		Yes No NA

6	How often are pressure readings taken in the distribution system?		Daily Weekly Monthly Annually	Other
7 Potential Deficiency	Is system pressure monitored and recorded at high and low elevations and the farthest distance from the pressure source?		Ycs No NA Unknown	
8	If there are PRVs, can the operator describe how they work and what they do?		Yes No NA Unknown	
10 Potential Deficiency	Are there areas with chronic low pressure problems?		Yes No NA Unknown	
11	Is there is a computer-aided hydraulic model of the distribution system		Yes No NA Unknown	
11.01	If yes, has it been calibrated to actual conditions?		Yes No NA Unknown	
11.02	When was it last updated?	_		
11.03	Does it show any low pressure conditions?		Yes No NA Unknown	
	Does the operator regularly record pressure readings on both sides of the PRV?		Yes No NA Unknown	
	If there are pressure zones controlled by automatic Pressure Regulating Valves (PRVs), do they work properly?	_	Yes No NA Unknown	
	If a PRV should fail, is there a system in place that will automatically notify the operator?		Yes No NA Unknown	
<u>Distribution</u>	n / Cross-Connections			
	Are there cross-connections in the distribution systems which are owned or controlled by the water system?		Yes No NA Unknown	· .
	Are there any cross-connections between the distribution system and any pipes, pumps, hydrants, or tanks whereby unsafe water or other contaminating materials may be discharged or drawn into the system?		Yes No NA Unknown	

Question Num	ber	
3	Does the water system have a program to control the use of fire hydrants?	✓ Yes☐ No☐ NA☐ Unknown
4	Are blow offs connected to sanitary or storm sewers or do they exit below flood level in ditches or streams?	☐ Yes ☐ No ☑ NA ☐ Unknown
5	Is potable water used for geothermal systems or heat exchangers?	☐ Yes ✓ No ☐ NA ☐ Unknown
5.01	If yes, is the distribution system protected from contamination and designed to prevent contamination?	I Yes
6	Are the backflow prevention devices installed and tested at each site where backflow could cause a reduction in water quality?	None present
7	Does the discharge piping on all air relief valves extend a proper distance above ground and flood level?	Yes No NA Unknown
8	Are backflow preventers installed with isolation valves to facilitate removal and maintenance?	☐ Yes ☐ No ☑ NA ☐ Unknown
<u>Distributio</u>	n / Disinfection	
1	Are chlorine residuals tested at least daily in the distribution system?	Yes No No Unknown
2	Is the residual at least 0.2 mg/L prior to the first customer?	Yes No No Unknown
3	Is at least a trace of residual maintained at all points in the distribution system?	☐ Yes ☐ No ☑ NA ☐ Unknown
4	Are there an adequate number of sample sites and do they provide a representative sample of system conditions?	✓ Ycs No NA Unknown
5	What disinfection procedure is used for new lines?	Unknown
6	What disinfection procedure is used during repairs of broken lines?	Unknown

Question Num	ıber					
	Do water main disinfection procedures meet the AWWA C-601 Standard? Does the utility use proper safety procedures for handling line disinfection chemicals?		Yes No NA Unknown Yes No			
	n / Maintenance		NA Unknown			
<u>Distributio</u>	in / Wamtenance					
1 Potential Deficiency	Is there a valve exercising program?		Yes No NA Unknown			
1.01	If yes, how often are the valves exercised?		Monthly Quarterly Semi-Annually Annually	По	Other	
1.02	Is the number of turns required to close and open the valve recorded?		Yes No NA Unknown			
2	Is there a water main flushing program?		Yes No NA Unknown			
2.01	If yes, is a systematic and unidirectional process used?		Yes No NA Unknown			
2.02	Is there a written set of procedures for conducting unidirectional flushing?		Ycs No NA Unknown			
2.03	How frequently is unidirectional flushing performed?	1		_		
	Notes: Annually					
3	Are all dead end water mains equipped with a means to flush the line?		Yes No NA Unknown			
	Are dead end water mains flushed at least semiannually?		Yes No NA Unknown			
	Is there a fire hydrant testing program, separate from the line flushing program?		No NA Unknown			
5.01	If yes, does the system oversee this testing?		Yes No NA Unknown			

Question Num	ber			_
6 Potential Deficiency	Is there a leak detection program?		Ycs No NA	
7 Potential Deficiency	Does the system have equipment for line location and leak detection?		Unknown Yes No NA Unknown	
<u>Distribution</u>	n / Repairs			
1	What is the frequency of main breaks per year?	_		
2	Are the breaks primarily in one area?		Yes No NA Unknown	
2.01	What type of pipe is involved?		Cast Iron / Ductile Iron Steel PVC Asbestos-Cement Copper	
	Does the utility perform their own water line repairs?		Yes No	
	Notes: The utility does minor repairs.		NA Unknown	
3.01	If yes, do they have adequate equipment and repair materials in stock?		Ycs No NA Unknown	
4	If contractors perform repairs do they respond in a reasonable amount of time?		Yes No NA Unknown	
	Does the system maintain in its inventory (at a minimum) two full circle repa bands for each pipe size, two solid couplings for each pipe size, two bell-joint repair clamps, and one length of each type and size of pipe?		Yes No NA Unknown	
6	If repair materials are not kept in stock, can they be obtained in a reasonabl amount of time?		Yes No NA Unknown	
	Are there written procedures for isolation of portions of the system and for making main repairs?		Yes No NA Unknown	
Storage / G	<u>eneral</u>			
	Are there provisions established for maintaining the water supply when the storage tank is out of service for maintenance?		Yes No NA Unknown	İ

	2	Are there provisions designed in for draining and cleaning of the storage tank?		Ycs No
		Notes: Tank is inspected and cleaned every five years.	H	NA Unknown
•	3	Are the storage structure and protective coatings approved by an ANSI accredited organization?		Yes No NA Unknown
	4	Is there a maintenance program for storage tanks?		Ycs No NA Unknown
	5	Are all confined space entry procedures done in accordance with OSHA requirements?		Ycs No NA Unknown
	6	Is ventilation provided in all rooms, compartments, pits and other enclosure: where unsafe atmosphere may develop or where excessive heat may be?		Yes No NA Unknown
Stora	ge / G	ravity		
Desig	-			
	1	Does the total storage on the system provide between 1 and 3 days of storage as compared to the average daily demand?		Ycs No
	•	Notes: Water in the 210,000 gallon tank is aerated because of the low usag	\exists	NA Unknown
	2	Is the storage capacity equal to or greater than the average daily consumption?		Yes No NA Unknown
	3	Is the storage system designed for direct pumping or floating on the distribution system?	□	Direct Pumping Floating
	4	If designed to allow both modes, in which mode is it being operated?		Direct Pumping Floating
	5 .	If operated in the "floating mode," is the tank volume included in the calculation for disinfectant contact time?		Yes No NA Unknown
	6	Is the elevation of the tank sufficient to maintain distribution pressure throughout the system?		Yes No NA Unknown
otential l	7 Deficiency	Is the storage structure designed so that it can be isolated from the distribution system without necessitating loss of pressure in the distribution system?	V	Yes No NA
	8	Is storage structure safely accessible to the inspector and operator?		Unknown Yes No NA Unknown

Question Num	ber		
9	Is the storage structure secure from unauthorized access?	Ycs No NA Unknown	
10 Potential Deficiency	Is the site protected against vandalism?	Yes No NA Unknown	·
11	Is the storage structure protected against flooding?	Yes No NA Unknown	
12	Is the area surrounding the ground-level storage structure graded in a manr that will prevent surface water from standing within 50 feet of it?	Yes No NA Unknown	
	Is the bottom of the storage reservoir constructed a minimum of 4 feet above the high ground water table?	Yes No NA Unknown	
14	Is the storage structure adequately protected from potential sources of contamination?	Yes No NA Unknown	
	Are all sewer lines outside a minimum 50 foot boundary from an in-ground storage tank?	Yes No NA Unknown	
16	Does the catwalk over finished water in a storage structure have a solid floowith raised edges?	Yes No NA Unknown	-
	Does the storage reservoir have a watertight roof or cover and is it sloped so that water will drain?	Ycs No NA Unknown	
18	If tank is steel, is it protected against corrosion?	Yes No NA Unknown	
19 Potential Deficiency	In cold climates, is the tank protected against icing?	Ycs No NA NA Unknown	
20	Is storage structure lined?	Yes No NA Unknown	
20.01	If yes, liner type:	Yes No NA	

☐ Unknown

Question N	umber		
20.02	Is the liner approved by an ANSI accredited organization?	☐ Yes ☐ No ☐ NA ☐ Unknown	-
Storage /	Gravity		
Compone			
1	Is all treated water storage covered?	✓ Ycs☐ No☐ NA☐ Unknown	
2	Does the tank appear to be structurally sound?	✓ Yes□ No□ NA□ Unknown	
3	Is cathodic protection provided?	☐ Ycs ☑ No ☐ NA ☐ Unknown	
3.01	If yes, are the cathodic protection access plates watertight?	☐ Yes ☐ No ☐ NA ☐ Unknown	
3.02	Are cathodic protection rods in good condition?	☐ Yes ☐ No ☐ NA ☐ Unknown	
3.03	Date cathodic rods were last changed.	·	
4	Are overflow pipes:		
4.01 Potential Deficie	Terminated 12 to 24 inches above the ground?	☐ Yes ☑ No ☐ NA ☐ Unknown	
4.02	Screened or fitted with a flapper gate?	Yes No NA Unknown	
4.03	Directly connected to a storm sewer or sanitary sewer?	☐ Yes ✓ No ☐ NA ☐ Unknown	
5	Are air vents:		
5.01	Turned downward or covered from rain?	Yes No NA Unknown	

Question Num	nber	
5.02	Terminated at a minimum of 3 diameters above the surface of storage tank roof?	Ycs No NA Unknown
5.03	Screened?	Yes No NA Unknown
6	Are access opening covers overlapping, water tight, and greater than or equal to four inches above the tank roof surface?	Yes No NA Unknown
7	Are outside access hatches locked?	Yes No NA Unknown
8	Is there a roof penetration for a water level indicator cable, if so does the cable pass through a tight-fitting grommet?	Yes No NA Unknown
9	Are there other roof penetrations, if so, are they sealed?	Yes No NA Unknown
10	Do all elevated tanks with riser pipes over eight inches in diameter have protective bars over the riser openings inside the tank?	Yes No NA Unknown
11	Do all water storage structures have ladders, ladder guards, balcony railing and safely located entrance hatches provided where applicable?	Yes No NA Unknown
12	Are ladders to tops of storage tanks terminated at least ten feet above the ground to deter unauthorized climbing?	Yes No NA Unknown
13	Is there a climbing harness or other OSHA approved safety system availab for accessing the top and interior of the tank for inspection and maintenance	Yes No NA Unknown
Storage / G	<u>ravity</u>	
Operation:		
1	Do storage tanks turn over at least once every 14 days?	Yes No NA Unknown
2	Is the tank being filled to capacity during automatic fill cycles?	Yes No NA Unknown
3	Are instruments and controls adequate and operational?	Yes No NA Unknown

		******		47.2
3.01	Are they being utilized and maintained?		Yes No	
			NA Unknown	
4	Does the operator understand what controls the water level or pressure in the tank and how to make adjustments?		Yes No	
			NA Unknown	
5	Does low pressure level provide adequate pressure throughout the distribution system?	V	Ycs No	
		_	NA Unknown	
Storage / G	<u>ravity</u>			
Maintenanc	e:			
1	Is the storage structure interior coating or liner peeling or cracked?		Yes No	
		$\overline{}$	NA	
		\checkmark	Unknown	
2	What is the frequency of interior inspection and cleaning?	<u>5 y</u>	ears	
		_		
3	Is this adequate?	V	Yes	
		H	No NA	
			Unknown	
4	What is the frequency of structural/protective coating inspections?	we	ekly	
•				
5 .	Is this adequate?	V	Ycs	
			No	
			NA Unknown	
6	Are the structural / protective coating inspections done by a NACE certified inspector and in accordance with AWWA Standard D101?		Ycs No	
Potential Deficiency	inspector and in accordance with AVVVA standard 5101:		NA	
			Unknown	
7	Is VOC and coliform testing performed after painting?	\Box	Yes	
	Notes: Tank hasn't been painted since constructed.		No NA	
	Train hastit been painted sines constitution.		Unknown	
8	Following interior inspection / maintenance activities and before tanks are returned to service, are tanks disinfected in accordance with AWWA		Yes . No	
	Standard C-652? Notes: Tank is cleaned and inspected by divers.		NA	
			Unknown	
9	Is leakage evident at time of inspection?		Yes No	
			NA	
			Unknown	
10	Are there provisions designed in for draining and cleaning of the storage tank?	V	Yes No	
			NA	
		Ш	Unknown	

Question Num	ıber		
11 Potential Deficiency	Are there provisions established for maintaining the water supply when the storage tank is out of service for maintenance?		Ycs No NA Unknown
12	Are safety precautions followed for climbing tanks?		Ycs No NA Unknown
Manageme	nt / General		
· 1	Are customer water quality complaints recorded?		Yes No
	Notes: Customers have not complained.		NA Unknown
1.01	Are complaints responded to immediately?		Yes No NA Unknown
	Have any major complaints been received since the last sanitary survey? If yes, list in comments section.		Ycs No NA Unknown
3	What percentage of the customers' connections are metered?	10	00
4	Is there more than 15% of unaccounted-for-water?		Yes No NA Unknown
5 Potential Deficiency	Does the utility have a corrosion control program?		Yes No NA Unknown
<u>Manageme</u>	nt / Operations		
1 Potential Deficiency	Are routine operation and maintenance records kept?		Yes No NA Unknown
<u>Manageme</u>	nt / Maintenance		
1 Potential Deficiency	Is there an established and documented preventative maintenance (PM) program?		Yes No NA Unknown
2	Are there sufficient facilities to store parts inventory, equipment, vehicles, traffic control devices and supplies?		Yes No NA Unknown

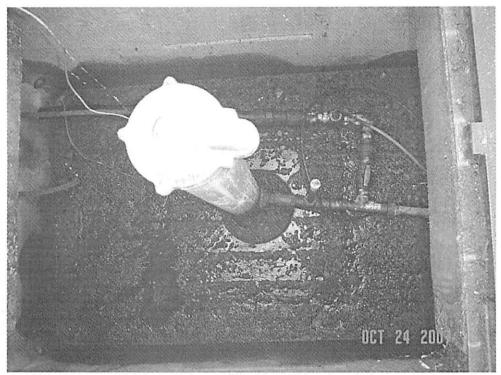
Management / Construction Standards

1	Is there a set of construction standards used by the utility?	Ycs No
	Notes: Major repairs are done by tribal construction.	□ □ NA □ Unknown
2	Are in-house staff and contractors required to use the same standards?	Yes No
		☐ NA ☐ Unknown

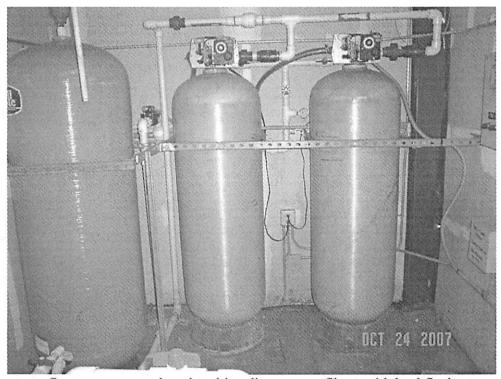
Management / Staffing

	•	
1	Is the main operator properly certified?	Yes
Potential Deficienc	y	✓ No □ NA
		Unknown
2	Is a certified operator available at all times as required by the authority?	Yes
Potential Deficienc	у	✓ No □ NA
		Unknowr
3	Are there sufficient personnel for operation and maintenance of the water system?	Yes No
	•	□ NA
		Unknowr

CEDARS WATER SYSTEM PICTUS EPA #105300108

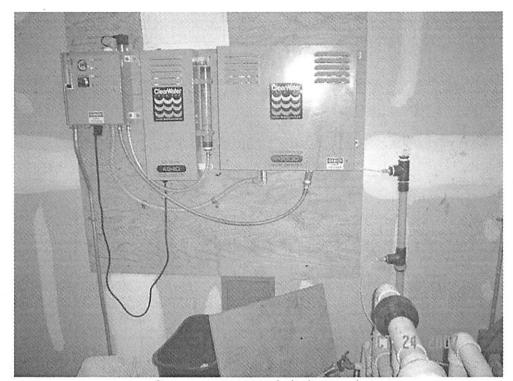


Main well located inside parking lot vault

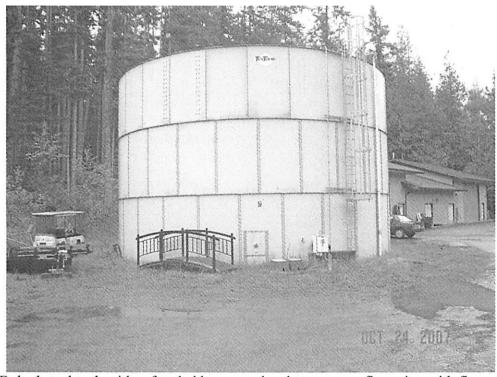


Ozone contact tank and multimedia pressure filters with backflush

CEDARS WATER SYSTEM PICTUS EPA #105300108



Ozone generator and air dryer unit



Bolted steel tank with safety ladder, water level target, overflow pipe with flapper valve, and air compressors for interior bubblers